(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 2 635 099 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
02.08.2017 Bulletin 2017/31

(43) Date of publication A2:
04.09.2013 Bulletin 2013/36

(21) Application number: **12194577.8**

(22) Date of filing: **28.11.2012**

(51) Int Cl.:
H05K 7/14 *(2006.01)* ***G02B 6/00*** *(2006.01)*

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(30) Priority: **29.02.2012 JP 2012044591**

(71) Applicant: **FUJITSU LIMITED**
Kawasaki-shi,
Kanagawa 211-8588 (JP)

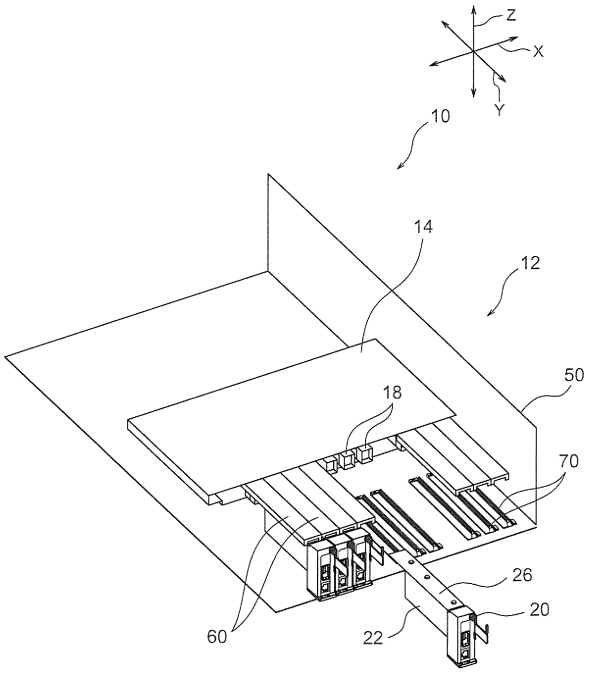
(72) Inventors:
- **Hashimoto, Shohei**
  Kanagawa, 211-8588 (JP)
- **Nishiyama, Takeshi**
  Kanagawa, 211-8588 (JP)

(74) Representative: **Hoffmann Eitle**
Patent- und Rechtsanwälte PartmbB
Arabellastraße 30
81925 München (DE)

(54) Electronic device and printed circuit board connection method

(57) An electronic device includes: a casing provided with a first printed circuit board that includes a first connector; a unit inserted into the casing through a housing opening formed in the casing, the unit including a second printed circuit board with a second connector, a pair of guide rails that guide the second connector towards the first connector; a width direction positioning section that is provided to an end portion on the housing opening side of at least one of the guide rails of the pair of guide rails and that positions the second connector in the unit width direction with respect to the first connector; and a top-bottom direction positioning section that is positioned further towards the first connector side than the width direction positioning section and that positions the second connector in the top-bottom direction with respect to the first connector.

FIG. 2



EP 2 635 099 A3

Europäisches Patentamt
European Patent Office
Office européen des brevets

EUROPEAN SEARCH REPORT

Application Number
EP 12 19 4577

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 6 317 329 B1 (DOWDY JAMES L [US] ET AL) 13 November 2001 (2001-11-13) * column 3, lines 16-36 * * column 4, lines 19-44 * -----	1-10	INV. H05K7/14 G02B6/00
A	JP 2006 237487 A (YASKAWA ELECTRIC CORP) 7 September 2006 (2006-09-07) * abstract * * -----	1-10	

TECHNICAL FIELDS SEARCHED (IPC)

H05K
H04Q

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	21 June 2017	Bernardini, Andrea

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 12 19 4577

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-06-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6317329 B1	13-11-2001	JP 2000149539 A	30-05-2000
		US 6317329 B1	13-11-2001
JP 2006237487 A	07-09-2006	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82